INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/017490

A CLASSIE	CATION OF CURIECT MATTER		1, 02, 190		
Int.Cl	CATION OF SUBJECT MATTER A61K31/675, A61P7/10, 9/00, 29/00, 35/00, 43/00	9/04, 9/10, 13/12, 25/0	4, 25/08,		
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SE	· ·				
Minimum docun	nentation searched (classification system followed by	classification symbols)			
Int.Cl ³	A61K31/675, A61P7/10, 9/00, 29/00, 35/00, 43/00	9/04, 9/10, 13/12, 25/0	4, 25/08,		
Documentation s	searched other than minimum documentation to the ex	tent that such documents are included in th	e fields searched		
Electronic data b	pase consulted during the international search (name of), REGISTRY (STN)	data base and, where practicable, search to	erms used)		
C. DOCUMEN	ITS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where a		Relevant to claim No.		
X A	WO 03/062201 Al (VITTAL MAL) RESEARCH FOUNDATION), 31 July, 2003 (31.07.03), Claims 1 to 54; example 18 (Family: none)	LYA SCIENTIFIC	1-4,11-17,19 5-10		
х	Kenji HARADA, Clinical Effic. Hydrochloride, a T-type Calc. Inhibitor, on Sympathetic Ac Circulation Journal, 2003, Vo pages 139 to 145	ium Channel tivities,	1,5-7,15-17, 19		
Further documents are listed in the continuation of Box C. See patent family annex.					
	ories of cited documents:	"T" later document published after the inter	national filing date or priority		
"A" document defining the general state of the art which is not considered to be of particular relevance		date and not in conflict with the applicat the principle or theory underlying the in	tion but cited to understand		
"E" earlier application or patent but published on or after the international filing date		"X" document of particular relevance; the cl considered novel or cannot be considered.	aimed invention cannot be cred to involve an inventive		
cited to estab	hich may throw doubts on priority claim(s) or which is olish the publication date of another citation or other n (as specified)	step when the document is taken alone "Y" document of particular relevance; the cla	nimed invention cannot be		
•	erring to an oral disclosure, use, exhibition or other means	considered to involve an inventive st combined with one or more other such d	ep when the document is ocuments, such combination		
"P" document published prior to the international filing date but later than the priority date claimed		being obvious to a person skilled in the art "&" document member of the same patent family			
20 Janu	completion of the international search ary, 2005 (20.01.05)	Date of mailing of the international searce 08 February, 2005 (h report 08 . 02 . 05)		
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer			
Facsimile No.		Telephone No.			

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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	P.PHANI KUMAR, Synthesis and Evaluation of a New Class of Nifedipine Analogs with T-Type Calcium Channel Blocking Activity, Molecular Pharmacology, 2002, Vol.61, No.3, pages 649 to 658	1,11-14 15-17,19
X A	JP 60-69089 A (Nissan Chemical Industries, Ltd.), 19 April, 1985 (19.04.85), Claim 1; page 5, upper left column, lines 12 to 14 & EP 141221 Al & US 4576934 A	15-17,19 1-14
X A	JP 63-233992 A (Nissan Chemical Industries, Ltd.), 29 September, 1988 (29.09.88), Claims 1 to 5; page 2, upper right column, 8th to 6th lines from the bottom & WO 87/4439 Al & EP 230944 Al & JP 62-169795 A	15-17,19 1-14
X A	JP 1-275591 A (Nissan Chemical Industries, Ltd.), 06 November, 1989 (06.11.89), Claims 1 to 8; page 2, upper left column, lines 10 to 14 (Family: none)	15-17,19 1-14
х	Hiromichi SUZUKI, "Cilnidipine no Jinkokasho o Tomonau Koketsuatsu Kanja no Koatsu oyobi Nyotanpaku Gensho Koka", Therapeutic Research, 2000, Vol.21, No.4, pages 760 to 762	15-17,19
Y	D.Bilici, Protective Effect of T-type Calcium Channel Blocker in Histamine-induced Paw Inflammation in Rat, Pharmacological Research, 2001, Vol.44, No.6, pages 527 to 531	15-17,19
Y	Chris Baylis, Comparison of L-Type and Mixed L-and T-Type Calcium Channel Blockers on Kidney Injury Caused by Deoxycorticosterone-Salt Hypertension in Rats, American Journal of Kidney Diseases, 2001, Vol.38, No.6, pages 1292 to 1297	15-17,19
Y	William F. McCalmont, Design, synthesis, and biological evaluation of novel T-Type calcium channel antagonists, Bioorganic & Medicinal Chemistry Letters, 2004, Vol.14, No.14, pages 3691 to 3695	15-17,19

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
Y	Darrell M. Porcello, Actions of U-92032, a T-Type Ca ²⁺ Channel Antagonist, Support a Functional Linkage Between I _t and Slow Intrathalamic Rhythms, J Neurophysiol., 2003, Vol.89, No.1, pages 177 to 185		15-17,19
P,X	Vol.89, No.1, pages 177 to 185 WO 2004/024153 A2 (DIAKRON PHARMACEUTICALS INC.), 25 March, 2004 (25.03.04), Claims 1 to 11 (Family: none)		1-4,11-17,19
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